

OXFORD

Apr 17
1958

Week

Look at Elko coal
mines in Nevada - C.P.R.
On way to Cal.

Write to Mr. Rhee
Apr 15

40.00

3.55

56.55

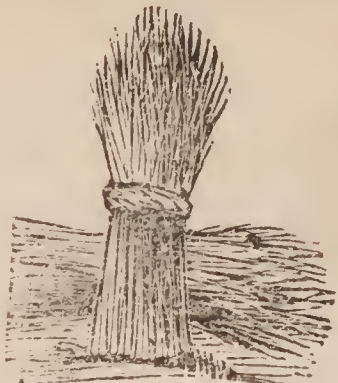

~~Whole and up to~~
~~Ogden from Chicago~~

Mr. Raymond, 1st
National bank

Frank Chick to Ogden

1197.


No 1




MARY

FOR

1872.



PUBLISHED
ANNUALLY
FOR THE TRADE



Stages from Va. city arrive
at S.B. Spring - 1 at 15 to 6 o'clock
P.M. & 1 at 11, p.M.

Train to Reno at 11
P.M.

Oct. 4th	Dinner	48
" 5	Breakfast	54
" 5	Dinner	26
" 6	Breakfast	36
" 6	Dinner	34
" 7	Breakfast	45
" 8	Breakfast	36
" 8	Dinner	39
" 9	Br.	(75) 35
" 9	Di.	(80) 48

CALENDAR.

1872	SUNDAY.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.	1872	SUNDAY.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
Jan.	...	1	2	3	4	5	6	July.	...	1	2	3	4	5	6
	7	8	9	10	11	12	13		7	8	9	10	11	12	13
	14	15	16	17	18	19	20		14	15	16	17	18	19	20
	21	22	23	24	25	26	27		21	22	23	24	25	26	27
	28	29	30	31	...	...	...		28	29	30	31	...	...	...
Feb.	...	...	...	...	1	2	3	Aug.	...	...	...	...	1	2	3
	4	5	6	7	8	9	10		4	5	6	7	8	9	10
	11	12	13	14	15	16	17		11	12	13	14	15	16	17
	18	19	20	21	22	23	24		18	19	20	21	22	23	24
	25	26	27	28	29	...	...		25	26	27	28	29	30	31
Mar.	...	...	...	...	...	1	2	Sep.	...	...	...	...	...	...	...
	3	4	5	6	7	8	9		1	2	3	4	5	6	7
	10	11	12	13	14	15	16		8	9	10	11	12	13	14
	17	18	19	20	21	22	23		15	16	17	18	19	20	21
	24	25	26	27	28	29	30		22	23	24	25	26	27	28
	31	...	...	...	...	...	...		29	30	...	...	...	...	...
April.	...	1	2	3	4	5	6	Oct.	...	...	1	2	3	4	5
	7	8	9	10	11	12	13		6	7	8	9	10	11	12
	14	15	16	17	18	19	20		13	14	15	16	17	18	19
	21	22	23	24	25	26	27		20	21	22	23	24	25	26
	28	29	30	...	...	...	...		27	28	29	30	31	...	...
May.	...	...	...	1	2	3	4	Nov.	...	...	...	...	...	1	2
	5	6	7	8	9	10	11		3	4	5	6	7	8	9
	12	13	14	15	16	17	18		10	11	12	13	14	15	16
	19	20	21	22	23	24	25		17	18	19	20	21	22	23
	26	27	28	29	30	31	...		24	25	26	27	28	29	30
June.	...	...	...	...	...	...	1	Dec.	...	...	...	...	...	...	...
	2	3	4	5	6	7	8		1	2	3	4	5	6	7
	9	10	11	12	13	14	15		8	9	10	11	12	13	14
	16	17	18	19	20	21	22		15	16	17	18	19	20	21
	23	24	25	26	27	28	29		22	23	24	25	26	27	28
	30	...	...	...	...	...	...		29	30	31	...	...	...	...

INTEREST TABLE.

Showing the Interest from \$10 to \$5000 for one month, and for one year, at 6 per cent.

\$10	15d. c.	3	\$10	1 m c.	5	\$10	1y. c.	60
20	"	5	20	"	10	20	"	\$1.20
30	"	8	30	"	15	30	"	1.80
40	"	10	40	"	20	40	"	2.40
50	"	13	50	"	25	50	"	3.00
60	"	15	60	"	30	60	"	3.60
70	"	18	70	"	35	70	"	4.20
80	"	20	80	"	40	80	"	4.80
90	"	23	90	"	45	90	"	5.40
100	"	25	100	"	50	100	"	6.00
200	"	50	200	"	\$1.00	200	"	12.00
300	"	75	300	"	1.50	300	"	18.00
400	"	\$1.00	400	"	2.00	400	"	24.00
500	"	1.25	500	"	2.50	500	"	30.00
1M	"	2.50	1M	"	5.00	1M	"	60.00
2M	"	5.00	2M	"	10.00	2M	"	120.00
3M	"	7.50	3M	"	15.00	3M	"	180.00
4M	"	10.00	4M	"	20.00	4M	"	240.00
5M	"	12.50	5M	"	25.00	5M	"	300.00

INTEREST PER DAY.

\$100	1 day	2 cents.	\$2000	1 day	33 cents.
200	"	3	3000	"	50
300	"	5	4000	"	67
400	"	7	5000	"	83
500	"	8	6000	"	\$1.00
600	"	10	7000	"	1.17
700	"	12	8000	"	1.33
800	"	13	9000	"	1.50
900	"	15	10000	"	1.67
1000	"	17	20000	"	3.33

A TABLE

Showing the number of days from any day in one month to the same day in any other month.

From	J	F	M	A	M	J	J	J	A	S	O	N	D
to January	365	31	59	90	120	151	181	212	243	273	304	334	
February	334	305	28	59	89	120	150	181	212	242	273	303	
March	306	337	365	31	61	92	122	153	184	214	245	275	
April	275	306	334	365	30	61	91	122	153	183	214	244	
May	245	276	304	335	304	365	31	61	92	123	153	184	214
June	214	245	273	304	334	365	30	61	92	122	153	183	
July	181	215	243	274	304	335	365	31	62	92	123	153	
August	153	184	212	243	273	304	334	365	31	61	92	122	
September	122	153	181	212	242	273	303	334	365	30	61	91	
October	92	123	151	182	212	243	273	304	335	365	31	61	
November	61	92	120	151	181	212	242	273	304	334	365	30	
December	31	62	90	121	151	182	212	243	274	304	335	365	

EXAMPLE.

Look April at the left hand and September at the top. In the angle is 153.

DIFFERENCE OF TIME—NEW YORK.

When it is 12 o'clock, noon, at NEW YORK CITY, it will be morning at all places *west* of New York, and afternoon at all places *east*, as shown in the following table:

WEST OF NEW YORK.

	H	M	S
Auburn, N. Y.....	11	50	12
Augusta, Ga.....	11	28	28
Baltimore, Md.....	11	49	38
Buffalo, N. Y.....	11	40	24
Charleston, S. C.....	11	36	22
Chicago, Ill.....	11	6	2
Cincinnati, O.....	11	18	16
Columbus, O.....	11	23	52
Dayton, O.....	11	19	20
Detroit, Mich.....	11	23	54
Geneva, N. Y.....	11	47	53
Harrisburg, Pa.....	11	48	44
Honolulu, S. I.....	6	24	8
Indianapolis, Ind.....	11	11	44
Jefferson, Mo.....	10	47	32
Key West, Fla.....	11	28	54
Knoxville, Tenn.....	11	20	28
Little Rock, Ark.....	10	47	16
Louisville, Ky.....	11	14	4
Milledgeville, Ga.....	11	22	45
Milwaukee, Wis.....	11	4	16
Mobile, Ala.....	11	0	2
Monterey, Cal.....	8	48	35
Nashville, Tenn.....	11	8	48
Natchez, Miss.....	10	50	26
Newark, N. J.....	11	59	24
Newbern, N. C.....	11	47	44
New Orleans, La.....	10	56	4
Norfolk, Va.....	11	50	49
Petersburg, Va.....	11	46	44
Philadelphia, Pa.....	11	55	25
Pittsburgh, Pa.....	11	35	56
Raleigh, N. C.....	11	40	52
Richmond, Va.....	11	46	15
Rochester, N. Y.....	11	44	40
Sacramento, Cal.....	8	56	4
St. Augustine, Fla.....	11	29	44
St. Louis, Mo.....	10	55	4

WEST OF NEW YORK.

	H	M	S
St. Paul, Minn.....	10	43	45
San Francisco, Cal.....	8	46	19
Savannah, Ga.....	11	31	32
Springfield, Ill.....	10	57	52
Tallahassee, Fla.....	11	17	40
Toronto, C. W.....	11	38	38
Trenton, N. J.....	11	57	28
Utica, N. Y.....	11	55	12
Washington, D. C.....	11	47	53
Wilmington, Del.....	11	54	12
Yorktown, Va.....	11	49	48

EAST OF NEW YORK.

	H	M	S
Albany, N. Y.....	0	1	6
Augusta, Me.....	0	16	44
Bangor, Me.....	0	26	56
Berlin, Prus.....	5	49	39
Boston, Mass.....	0	11	50
Constantinople.....	6	52	0
Dublin, Ireland.....	4	30	42
Edinburg.....	4	43	21
Fredericton, N.B.....	0	29	4
Halifax, N. S.....	0	41	38
Hamburg, Ger.....	5	35	58
Hartford, Ct.....	0	5	21
London, Eng.....	4	55	41
Lowell, Mass.....	0	10	48
Middletown, Ct.....	0	5	28
Montreal, C. E.....	0	1	44
New Haven, Ct.....	0	4	23
Paris, France.....	5	5	26
Portland, Me.....	0	15	10
Providence, R. I.....	0	10	25
Quebec, C. E.....	0	11	0
Rome, Italy.....	5	45	59
St. Petersburg.....	6	57	18
Stockholm, Sw'n.....	6	8	18
Vienna, Austria.....	6	1	37

Rates of Postage.

DOMESTIC.

On all *Letters* throughout the United States, 3 cents for each half ounce or fraction thereof.

Drop or Local Letters, 2 cents where there is a free carrier's delivery. At other offices, 1 cent.

Valuable Letters may be registered by the payment of a registration fee of 20 cents.

Money can be sent with absolute safety by mail by procuring a Money Order. The fees are for \$1 to \$10 ten cents; \$20 to \$50, twenty-five cents.

Circulars, unsealed, not exceeding three in number, to one address, 2 cents; the same rate for every three or less number additional.

Printed Books, in one package to one address, 4 cents for each 4 ounces or fraction thereof.

On all *Transient Newspapers or other Printed Matter* (Books and Circulars excepted), and on all Seeds, Cuttings, &c., Pamphlets, Book MSS. and Proof Sheets, Maps, Engravings, Blanks, Patterns, Envelopes, and Photographs, contained in one package, to one address, 2 cents for each 4 ounces or fraction thereof.

All *Transient Matter*, except duly certified letters of Soldiers and Sailors, must be prepaid by stamps.

On all matter not above specified, same rate as letters.

No package will be forwarded which weighs over four pounds, except books published or circulated by order of Congress.

FOREIGN.

On *Letters to Great Britain and Ireland*.—For every half ounce or fraction thereof, 6 cents, if prepaid. If not prepaid, 6 cents extra will be collected in Great Britain, and 6 cents in the United States.

To the *German States*.—For every half ounce or fraction thereof, *via* North German Union direct, 10 cents; closed mail *via* England, 15 cents; prepayment optional.

To *France*, 10 cents for each half ounce or fraction thereof; prepayment optional.

To the *Dominion of Canada*, per half ounce, any distance, 6 cents, if prepaid; if not paid, 10 cents.

To other *British North American Provinces*, not over 3000 miles, 10 cents per half ounce; over 3000 miles, 15 cents per half ounce. Prepayment compulsory.

A COMPLETE TABLE OF

Stamp Duties,

AS APPROVED MARCH 26, 1867.

<i>Agreement or Contract</i> , not otherwise specified; any appraisement of value or damage, or for other purpose; for each agreement, or for each sheet of each agreement, &c., or renewal of same.....	\$0.05
<i>Assignment</i> .—See Conveyance.	
<i>Bank Check, Draft or Order</i> for the payment of any sum of money drawn upon any bank, banker, or trust company.....	.02
Or for any sum exceeding \$10, drawn upon any other person, companies, or corporations, at sight or on demand.....	.02
<i>Bill of Exchange, (Inland,) Draft, or Order</i> , for the payment of money, not at sight or on demand, or any PROMISSORY NOTE, (except bank notes issued for circulation, and checks made and intended to be forthwith presented, and which shall be presented to a bank or banker for payment.) or any memorandum, check, receipt, or other written or printed evidence of money to be paid on demand, or at a time designated, for every \$100 or part thereof.....	.05
<i>Bill of Exchange (Foreign,) or Letters of Credit</i> , drawn in but payable out of the United States: If drawn singly or in duplicate, same as Inland bills of Exchange. If drawn in sets of three or more, every bill of each set, for every \$100, or the equivalent thereof, in any foreign currency in which the bill is expressed.....	.02
<i>Bill of Lading, or Receipt</i> , (other than charter party,) for any goods, &c., exported to a foreign port.....	.10
<i>Bill of Sale of Vessel</i> , or any part thereof, consideration of value not over \$500.....	.50
Every add'l \$500, or part thereof, 50 cents more.	
<i>Bond of Indemnity</i> , every \$1,000, or part thereof.	.50
<i>Bond</i> , for the execution of the duties of any office.	1.00

UNITED STATES STAMP DUTIES.

<i>Bond</i> , other than required in legal proceedings, or used in connection with mortgage deeds, and not otherwise charged.....	.25
<i>Certificate of Stock</i> , in incorporated company.....	.25
<i>Certificate of Profits</i> , or any certificate or memorandum showing an interest in the property or accumulations of any incorporated company, if for \$10 and not over \$50.....	.10
Over \$50 and not over \$1,000.....	.25
Every add'l \$1,000, or part thereof, 25 cts. more.	
<i>Certificate of Damage</i> , or otherwise, and all other certificates or documents issued by any port warden, marine surveyor, or person acting as such.....	.25
<i>Certificate of Deposit</i> , \$100 or less.....	.02
Over \$100.....	.05
(Certificate of measurement or weight of animals, wood, coal, or hay; certificate of the record of a deed or other instrument in writing, or of the acknowledgment or proof thereof, by attesting witnesses, require no stamp.)	
<i>Certificate</i> , of any other description.....	.05
<i>Charter Party</i> , (or renewal, &c.. of same,) contract or agreement for charter of vessel or steamer of registered tonnage, not over 150 tons.....	1.00
Over 150 and not over 300 tons.....	3.00
Over 300 and not over 600 tons.....	5.00
Over 600 tons.....	10.00
<i>Contract</i> , or renewal, Broker's note, or memorandum of sale of merchandise, exchange, real estate, or other property issued by brokers, or persons acting as such, each.....	.10
<i>Conveyance</i> .—Deed or writing, whereby any lands, tenements, or other realty sold is granted, assigned, or transferred, for every \$500, or part thereof.....	.50
<i>Entry of Goods, &c.</i> , at any custom house, for consumption or warehousing, of value not over \$100.....	.25
Over \$100 and not over \$500.....	.50
Over 500.....	1.00
<i>Withdrawal</i> from bonded warehouse.....	.50

UNITED STATES STAMP DUTIES.

<i>Insurance (Life).—Policy, (or assignment, &c., of same, not over \$1,000).....</i>	.25
Over \$1,000 and not over \$5,000.....	.50
Over \$5,000.....	1.00

<i>Insurance, (Marine, Inland and Fire).—Each policy or renewal, (or assignment, &c., of same,) on which premium is \$10 or less.....</i>	.10
Over \$10 and not over \$50.....	.25
Over 50.....	.50

Insurance against accidental injury to persons, exempt.

<i>Lease, agreement, memorandum, or contract, for the hire, use, or rent of any land, tenement, or portion thereof, when rent or rental value is not over \$300 per annum.....</i>	.50
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Every add'l \$200, or part thereof, 50 cents more.

Lease, Assignment of.—A stamp duty equal to that imposed on the original instrument, increased by a stamp duty on the consideration or value of the assignment equal to that imposed upon the conveyance of land for similar consideration or value. (See Conveyance.)

<i>Manifest, for custom house entry or clearance of vessel's cargo for foreign port, (except to British North America,) tonnage not over 300 tons</i>	1 00
Over 300 and not over 600 tons.....	3.00
Over 600 tons.....	5.00

<i>Mortgage, Trust Deed or Personal Bond, for the payment of money, over \$100 and not over \$500</i>	.50
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Every add'l \$500, or part thereof, 50 cents more

Upon each assignment or transfer of a mortgage a stamp duty equal to that upon a mortgage for the amount remaining unpaid.

Trust Deed conveying estate to uses, to be stamped as a conveyance.

Official Instruments, documents and papers issued by the officers of the United States government, or by the officers of any State, county or town, require no stamp.

Affidavits in suits or legal proceedings, exempt.

Order for the payment of money. See Bank Check.

UNITED STATES STAMP DUTIES.

<i>Passage Ticket, to foreign port, (except British North America,) costing \$35 or less.....</i>	.50
Over \$35 and not over \$50.....	.50
Every add'l \$50, or part thereof, \$1 more.	

<i>Power of Attorney, to sell or transfer any stock, bond, or scrip, or for the collection of any dividend, or interest thereon.....</i>	.25
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To vote by proxy for officers of any corporation or society, (except religious, charitable, literary societies, or public cemeteries).....	.10
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To sell or rent real estate	1.00
To collect rents.....	.25
To perform any act not herein mentioned.....	.50

<i>Probate of Will, or Letters of Administration, value of estate not over \$2000.....</i>	1.00
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Every add'l \$1,000, or part thereof, 50 cts. more. (Probate of will, letters testamentary or of administration, or administrator's or guardian's bonds, when the value of the estate, real and personal, does not exceed \$1,000, require no stamp.

Promissory Note.—See Bill of Exchange, Inland.

<i>Protest of note, bill of exchange, acceptance, check or draft, or any marine protest, whether protested by a notary public or by any other officer who may be authorized by law to make such protest.....</i>	.25
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<i>Receipt for any sum of money, or for the payment of any debt exceeding \$20 in amount, not being for the satisfaction of any mortgage or judgment or decree of any court, or by indorsement on any stamped obligation in acknowledgment of its fulfilment.....</i>	.02
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<i>Canned Meats, &c., for and upon every can, bottle or other single package, containing meats, fruits, vegetables, sauces, syrups, prepared mustard, jams or jellies, not exceeding 2 lbs. in weight.....</i>	.01
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Every add'l pound or part thereof, 1 cent more.

UNITED STATES STAMP DUTIES.

Proprietary, Medicines, Perfumery, Cosmetics, Preparations, &c., each package retailed at not over 25 cents..... .01
Over 25 cents and not over 50 cents.02
Over 50 cents and not over 75 cents..... .03
Over 75 cents and not over \$1..... .04
Every add'l 50 cents, or part thereof, 2 cts. more.


Friction Matches, or lucifer matches, or other articles made in part of wood, and used for like purposes, each package of 100 matches or part thereof..... .01

Packages of more than 100 matches, for each 100 or part thereof..... .01

Cigar Lights, made in part of wood, wax, glass, paper or other materials, in packages containing twenty-five lights or less, each package... .01

Every additional twenty-five lights or part thereof, 1 cent more.

Playing Cards, for and upon every pack, not exceeding fifty-two cards in number, irrespective of price or value..... .05

 The indiscriminate use of all kinds of stamps (except postage or proprietary) is permitted, care being taken to affix a stamp or stamps of the proper amount.

Documents made in any foreign country, to be used in the United States, shall pay the same duty as when made here.

Powers of Attorney, or other papers relating to applications for bounties, arrearages of pay, or pensions, require no stamp; neither do indorsement of negotiable instrument, nor any warrant of attorney accompanying a bond or note when such bond or note shall be stamped; and whenever any bond or note shall be secured by mortgage, but one stamp duty is required, provided the stamp duty placed thereon is the highest rate required for said instrument, or either of them.

The person using or affixing the stamp or stamps, shall write thereupon the initials of his name and the date upon which the same shall be attached or used, so that the same shall not be used again, under a penalty of \$50; or they may be otherwise canceled as the Commissioner of Internal Revenue may prescribe.

Violations of these Stamp Duties will be punished as the law directs.



MOON'S PHASES.

	d.	h.	m.	
LAST QUARTER,	3	4	36	Evening.
NEW MOON,	10	9	55	Morning.
FIRST QUARTER,	17	7	0	Morning.
FULL MOON,	25	12	12	Evening.

D. M.	Day of Week.	MISCELLANEOUS.	Sun Rises.	Sun Sets.	Moon Rises & Sets.	High Water.
1	M.	Procl'n Emancipation, 1863.	7 23	4 37	10 59	5 38
2	Tu.	Battle of Stone River, 1863.	7 23	4 37	11 44	6 19
3	W.	Bishop Hughes died, 1864.	7 23	4 37	morn	7 8
4	Th.	(7) Bat. Paintsville, Ky., '62.	7 22	4 38	12 40	7 58
5	Fr.	Cataline killed, 62 B. C.	7 22	4 38	1 32	8 46
6	Sa.	(7) Liberia colonized, 1822.	7 22	4 38	2 41	9 38
7	S.	1st Sunday after Epiphany.	7 21	4 39	3 55	10 36
8	M.	Battle of New Orleans, 1815.	7 21	4 39	5 8	11 40
9	Tu.	(10) Dr. L. Beecher died, '63.	7 20	4 40	6 20	12 46
10	W.	(11) Linnæus died, 1778.	7 19	4 41	sets.	1 42
11	Th.	Battle of Arkansas Post, 1863.	7 19	4 41	5 59	2 40
12	Fr.	Gen. Marston's raid, 1864.	7 18	4 42	7 9	3 36
13	Sa.	The Lexington burned, 1840.	7 17	4 43	8 14	4 20
14	S.	2d Sunday after Epiphany.	7 16	4 44	9 15	5 10
15	M.	Everett died, 1865.	7 16	4 44	10 16	5 55
16	Tu.	Gibbon died, 1794.	7 15	4 45	11 14	6 48
17	W.	Battle of Bainbridge, 1864.	7 15	4 45	morn	7 36
18	Th.	Daniel Webster born, 1782.	7 14	4 46	12 10	8 26
19	Fr.	Georgia seceded, 1861.	7 13	4 47	1 15	9 16
20	Sa.	Exped'n to Ponta Rosa, '64.	7 12	4 48	2 25	10 6
21	S.	3d Sunday after Epiphany.	7 11	4 49	3 30	10 56
22	M.	Independ. U. S. ack. 1783.	7 10	4 50	4 34	11 40
23	Tu.	Humboldt in Chi'zo, 1802.	7 9	4 51	5 38	12 26
24	W.	Gen. Roddy whipped, 1864.	7 8	4 52	6 40	1 12
25	Th.	Burns born, 1789.	7 7	4 53	rises.	1 58
26	Fr.	Jenner, inventor, died, 1823.	7 6	4 54	6 20	2 44
27	Sa.	Burr's conspiracy, 1807.	7 5	4 55	7 29	3 36
28	S.	4th Sunday after Epiphany.	7 4	4 56	8 35	4 22
29	M.	(30) Kansas admitted, 1861.	7 3	4 57	9 48	5 14
30	Tu.	First Life Boat built, 1790.	7 2	4 58	10 40	5 54
31	W.	Rebels leave Dalton, 1864.	7 1	4 59	11 34	6 41



MOON'S PHASES.

	d.	h.	m.	
LAST QUARTER,	2	5	8	Morning.
NEW MOON,	8	8	48	Evening.
FIRST QUARTER,	16	1	20	Morning.
FULL MOON,	24	5	54	Evening.

D. M.	Day of Week.	MISCELLANEOUS.	Sun Rises.	Sun Sets.	Moon Rises & Sets.	High Water.
1	Th.	Charleston captured, 1865.	7 0	5 0	morn	7 32
2	Fr.	Lorenzo Dow died, 1834.	6 59	5 1	12 44	8 20
3	Sa.	Inquisit'n abol. in Spain, '13.	6 58	5 2	1 40	9 8
4	S.	Sexagesima Sunday.	6 57	5 3	2 46	9 49
5	M.	Cato killed, 46 B. C.	6 56	5 4	3 49	10 45
6	Tu.	Battle of Fort Henry, 1862.	6 55	5 5	4 56	11 48
7	W.	Bat. of Roanoke, N. C., '62.	6 54	5 6	5 59	12 51
8	Th.	Mary Queen of Scots k., 1587.	6 53	5 7	sets.	1 54
9	Fr.	Gen. Harrison born, 1773.	6 52	5 8	6 30	2 42
10	Sa.	(9) "Southern Confed." 1861.	6 51	5 9	7 37	3 34
11	S.	Quinquagesima Sunday.	6 49	5 11	8 35	4 21
12	M.	Lady J. Gray exec'd, 1554.	6 48	5 12	9 32	5 11
13	Tu.	Springfield, Missouri, taken.	6 47	5 13	10 28	5 55
14	W.	Ash Wednesday.	6 45	5 15	11 10	6 43
15	Th.	Galileo born, 1564.	6 44	5 16	11 58	7 36
16	Fr.	Fort Donelson taken, 1862.	6 43	5 17	morn	8 22
17	Sa.	Columbia, S. C., taken, 1865.	6 42	5 18	12 49	9 10
18	S.	1st Sunday in Lent.	6 41	5 19	1 46	9 54
19	M.	Florida ceded, 1821.	6 39	5 21	2 40	10 46
20	Tu.	Battle of Olustee, 1864.	6 38	5 22	3 32	11 32
21	W.	Bat. Valverde, Mexico, 1862.	6 37	5 23	4 18	12 21
22	Th.	Washington born, 1732.	6 35	5 25	5 8	12 54
23	Fr.	(22) Wilmington, N. C., taken.	6 34	5 26	5 59	1 40
24	Sa.	Louis Philippe abdic'd, 1848.	6 33	5 27	rises.	2 18
25	S.	2d Sunday in Lent.	6 31	5 29	6 54	3 4
26	M.	Cherokees abol. slavery.	6 30	5 30	7 56	3 44
27	Tu.	(25) Battle of Trenton, 1776.	6 29	5 31	8 59	4 30
28	W.	Great Plague in London, 1665.	6 27	5 33	10 11	5 19
29	Th.	(26) Ft. Powell bomb'd, 1864.	6 26	5 34	11 20	5 59



MOON'S PHASES.

	d.	h.	m.	
LAST QUARTER,	2	2	56	Afternoon.
NEW MOON,	9	7	51	Morning.
FIRST QUARTER,	16	9	20	"
FULL MOON,	24	8	40	Evening.
LAST QUARTER,	31	9	28	Morning.

D. M.	Day of Week.	MISCELLANEOUS.	Sun Rises.	Sun Sets.	Moon Rises & Sets.	High Water.
1	Fr.	"The Spectator" app'd, 1711.	6 25	5 35	morn	6 46
2	Sa.	Wesley died, 1791.	6 24	5 36	12 32	7 33
3	S.	3d Sunday in Lent.	6 22	5 38	1 41	8 21
4	M.	T. Starr King died, 1864.	6 21	5 39	2 50	9 10
5	Tu.	Bat. Yazoo City, Miss., 1864.	6 20	5 40	3 48	9 55
6	W.	Bat. Pea Ridge, Ark., 1862.	6 18	5 42	4 38	10 42
7	Th.	(8) Raid of the Merrimac, '62.	6 17	5 43	5 20	11 48
8	Fr.	Wm. III. Eng'd died, 1702.	6 16	5 44	5 59	12 49
9	Sa.	Bat. of Hampton Rds. 1862.	6 14	5 46	sets.	1 54
10	S.	4th Sunday in Lent.	6 13	5 47	6 55	2 40
11	M.	Fort Marion taken, 1862.	6 12	5 48	7 56	3 26
12	Tu.	Battle of Paris, Tenn., 1862.	6 10	5 50	8 46	4 12
13	W.	New Madrid, Mo., evacuated.	6 9	5 51	9 42	4 52
14	Th.	Newbern, N. C., capt'd, '62.	6 8	5 52	10 40	5 40
15	Fr.	Cæsar killed, 44 B. C.	6 6	5 54	11 38	6 26
16	Sa.	Bowditch died, 1838.	6 5	5 55	morn	7 12
17	S.	5th Sunday in Lent.	6 3	5 57	12 34	6 52
18	M.	Stamp Act repealed, 1766.	6 2	5 58	1 34	8 44
19	Tu.	The Georgiana destroyed.	6 1	5 59	2 29	9 49
20	W.	Newton died, 1727.	6 0	6 0	3 34	10 51
21	Th.	Beaufort taken, 1862.	5 59	6 1	4 28	11 52
22	Fr.	Stamp Act passed, 1765.	5 57	6 3	5 10	12 49
23	Sa.	Battle of Winchester, 1862.	5 56	6 4	5 50	1 46
24	S.	Palm Sunday.	5 54	6 6	rises.	2 34
25	M.	Hudson River discov'd, 1609.	5 53	6 7	7 56	3 21
26	Tu.	Paducah sacked, 1864.	5 52	6 8	8 44	4 9
27	W.	Jacksonville burned, 1863.	5 50	6 10	9 40	4 49
28	Th.	Battle of Apache Pass, 1862.	5 49	6 11	10 36	5 36
29	Fr.	(28) The Diana taken, 1863.	5 48	6 12	11 44	6 22
30	Sa.	Sicilian Vespers, 1282.	5 47	6 13	morn	7 9
31	S.	Easter Sunday.	5 45	6 15	12 48	7 57



MOON'S PHASES.

	d.	h.	m.	
NEW MOON,	7	7	30	Evening.
FIRST QUARTER,	15	5	10	"
FULL MOON,	23	8	36	Morning.
LAST QUARTER,	30	3	18	"

D. M.	Day of Week.	MISCELLANEOUS.	Sun Rises.	Sun Sets.	Moon Rises & Sets.	High Water.
1	M.	Battle of Five Forks, 1865.	5 44	6 16	1 46	8 45
2	Tu.	Jefferson born, 1743.	5 43	6 17	2 40	9 40
3	W.	Richmond taken, 1865.	5 41	6 19	3 28	10 29
4	Th.	President Harrison died, 1841.	5 40	6 20	4 6	11 12
5	Fr.	Bat. Black Bayou, La., 1863.	5 39	6 21	4 49	11 52
6	Sa.	Bat. Pittsburg Landing, 1862.	5 37	6 23	5 38	12 50
7	S.	1st Sunday after Easter.	5 36	6 24	sets.	1 49
8	M.	Bat. of Mansfield, La., 1864.	5 35	6 25	7 30	2 35
9	Tu.	Gen. Lee surrendered, 1865.	5 33	6 27	8 28	3 24
10	W.	Bat. of Franklin, Tenn., 1863.	5 32	6 28	9 26	4 11
11	Th.	Fort Pulaski taken, 1862.	5 31	6 29	10 10	4 54
12	Fr.	Mobile taken, 1865.	5 30	6 30	11 46	5 42
13	Sa.	Fort Sumter taken, 1861.	5 29	6 31	11 42	6 31
14	S.	2d Sunday after Easter.	5 27	6 33	morn	7 29
15	M.	Lincoln died, 1865.	5 26	6 34	12 36	8 8
16	Tu.	Porter's fleet pass Vicksburg.	5 25	6 35	1 22	8 58
17	W.	Bat. of Lee's Mills, Va., 1862.	5 24	6 36	2 06	9 46
18	Th.	Bat. of Fort Jackson, 1862.	5 23	6 37	2 48	10 32
19	Fr.	Mass. troops attacked in Balt.	5 21	6 39	3 22	11 16
20	Sa.	Bat. of Patterson, Mo., 1863.	5 20	6 40	3 54	11 56
21	S.	3d Sunday after Easter.	5 19	6 41	4 21	12 44
22	M.	Battle near Strasburg, 1863.	5 18	6 42	4 55	1 16
23	Tu.	Shakspeare died, 1616.	5 17	6 43	rises.	1 59
24	W.	Battle of Cane River, 1864.	5 15	6 45	8 22	2 47
25	Th.	Fort Macon taken, 1861.	5 14	6 46	9 38	3 34
26	F.	Gen. Johnston surren'd, 1865.	5 13	6 47	10 48	4 20
27	Sa.	(28) Bat. Jackson, Mo., 1863.	5 12	6 48	11 54	5 9
28	S.	4th Sunday after Easter.	5 10	6 50	morn	5 59
29	M.	Battle of Grand Gulf, 1863.	5 9	6 51	12 51	6 46
30	Tu.	(29) Bat. Bridgep't, Ala., '62.	5 8	6 52	1 37	7 32



MOON'S PHASES.

	d.	h.	m.	
NEW MOON,	7	8	16	Morning.
FIRST QUARTER,	15	11	2	Morning.
FULL MOON,	22	6	6	Morning.
LAST QUARTER,	29	9	10	Morning.

D. M.	Day of Week.	MISCELLANEOUS.	Sun Rises.	Sun Sets.	Moon Rises & Sets.	High Water.
1	W.	Battle of Port Gibson, 1863.	5 7	6 53	2 20	8 21
2	Th.	Riots in Memphis, 1866.	5 6	6 54	2 52	9 16
3	Fr.	Stonewall Jackson died, 1863.	5 5	6 55	3 22	10 10
4	Sa.	Bat. of Chancellorville, 1863.	5 4	6 56	3 46	10 59
5	S.	5th Sunday after Easter.	5 3	6 57	4 11	11 56
6	M.	Bat. of Wilderness, Va., 1864.	5 2	6 58	4 36	12 54
7	Tu.	Josh. R. Giddings died, 1864.	5 1	6 59	sets.	1 50
8	W.	(10) Bat. Spottsylvania, 1864.	5 0	7 0	7 56	2 48
9	Th.	Schiller died, 1805.	4 59	7 1	8 52	3 34
10	Fr.	Pacific Railroad opened, '69.	4 58	7 2	9 48	4 22
11	Sa.	Butler at Bermuda Hun., '64.	4 57	7 3	10 42	5 12
12	S.	6th Sunday after Easter.	4 56	7 4	11 38	5 54
13	M.	Jamestown settled, 1607.	4 55	7 5	morn	6 42
14	Tu.	Jackson, Miss., taken, 1863.	4 54	7 6	12 20	7 31
15	W.	Battle of Resaca, Ga., 1864.	4 53	7 7	12 49	8 21
16	Th.	Mrs. Hemans died, 1835.	4 52	7 8	1 18	9 14
17	Fr.	John Jay died, 1829.	4 51	7 9	1 51	9 54
18	Sa.	Grant invests Vicksburg, '63.	4 50	7 10	2 20	10 42
19	S.	Whit Sunday.	4 49	7 11	2 52	11 30
20	M.	Acad. Music, N. Y., burnt, '66	4 48	7 12	3 20	12 19
21	Tu.	Battle of Essling, 1809.	4 48	7 12	3 51	12 59
22	W.	First steamship, 1819.	4 47	7 13	rises.	1 53
23	Th.	Bat. of Front Royal, Va., '62.	4 46	7 14	8 25	2 50
24	Fr.	Copernicus died, 1543.	4 46	7 14	9 36	3 41
25	Sa.	Repeal Missouri Comp., '54.	4 45	7 15	10 40	4 30
26	S.	Trinity Sunday.	4 44	7 16	11 33	5 18
27	M.	Banks defeat. at Pt. Hudson.	4 44	7 17	morn	6 9
28	Tu.	Battle near Corinth, 1862.	4 43	7 17	12 20	6 59
29	W.	Gen. Scott died, 1866.	4 42	7 18	12 55	7 44
30	Th.	Battle near Chickahominy.	4 41	7 19	1 26	8 33
31	Fr.	Stony Point evacuated, 1779.	4 41	7 19	1 52	9 5



MOON'S PHASES.

	d.	h.	m.	
NEW MOON,	5	10	20	Evening.
FIRST QUARTER,	14	2	18	Morning.
FULL MOON,	21	1	56	Morning.
LAST QUARTER,	27	4	25	Afternoon.

D. M.	Day of Week.	MISCELLANEOUS.	Sun Rises.	Sun Sets.	Moon Rises & Sets.	High Water.
1	Sa.	Battle of Fair Oaks, 1862.	4 40	7 20	2 19	9 40
2	S.	1st Sunday after Trinity.	4 40	7 20	2 44	10 44
3	M.	Battle of Cold Harbor, 1864.	4 39	7 21	3 14	11 49
4	Tu.	Battle of Magenta, 1859.	4 39	7 21	3 50	12 48
5	W.	Weber died, 1826.	4 38	7 22	sets.	1 40
6	Th.	Battle of Memphis, 1862.	4 38	7 22	8 40	2 32
7	Fr.	Mahomet died, 632.	4 37	7 23	9 8	3 24
8	Sa.	Bat. Cross Keys, Va., 1862.	4 37	7 23	9 44	4 11
9	S.	2d Sunday after Trinity.	4 37	7 23	10 16	4 50
10	M.	Plague at Smyrna, 1837.	4 36	7 24	10 40	5 41
11	Tu.	Sir John Franklin died, 1847.	4 36	7 24	11 18	6 24
12	W.	New York incorporated, 1665.	4 36	7 24	11 51	7 22
13	Th.	Lee's army at Winchester.	4 35	7 25	morn	8 11
14	Fr.	Banks defeat. at Pt. Hudson.	4 35	7 25	12 24	8 55
15	Sa.	Magna Charta signed, 1215.	4 35	7 25	12 56	9 42
16	S.	3d Sunday after Trinity.	4 35	7 25	1 22	10 30
17	M.	Battle of Boonville, Mo., '61.	4 35	7 25	1 51	11 18
18	Tu.	Battle of Waterloo, 1815.	4 35	7 25	2 19	11 58
19	W.	"The Alabama" sunk, 1864.	4 35	7 25	2 55	12 40
20	Th.	(22) Bat. Weldon R. R., '64.	4 34	7 26	3 38	1 24
21	Fr.	James Madison died, 1836.	4 35	7 25	rises.	2 4
22	Sa.	Philadelphia evacuated, 1778.	4 35	7 25	9 16	2 44
23	S.	4th Sunday after Trinity.	4 35	7 25	10 4	3 40
24	M.	Battle of Solferino, 1859.	4 35	7 25	10 42	4 31
25	Tu.	George IV. died, 1830.	4 35	7 25	11 16	5 20
26	W.	Cromwell a Protect., 1659.	4 35	7 25	11 48	5 59
27	Th.	Cholera in New York, 1832.	4 35	7 25	morn	6 47
28	Fr.	Battle of Chickahominy, 1862.	4 35	7 25	12 14	7 35
29	Sa.	Henry Clay died, 1852.	4 36	7 24	12 42	8 22
30	S.	5th Sunday after Trinity.	4 36	7 24	1 26	9 10



MOON'S PHASES.

	d.	h.	m.	
NEW MOON,	5	1	22	Afternoon.
FIRST QUARTER,	13	2	46	Afternoon.
FULL MOON,	20	8	52	Morning.
LAST QUARTER,	27	2	16	Morning.

D. M.	Day of Week.	MISCELLANEOUS.	Sun Rises.	Sun Sets.	Moon Rises & Sets.	High Water.
1	M.	Battle of Malvern Hill, 1862.	4 36	7 24	1 50	9 54
2	Tu.	Bat. Martinsburg, Va., 1861.	4 36	7 24	2 21	10 52
3	W.	Battle of Gettysburg, 1863.	4 37	7 23	2 57	11 51
4	Th.	Capture of Vicksburg, 1863.	4 37	7 23	3 40	12 47
5	Fr.	Battle of Chippewa, 1814.	4 38	7 22	sets.	1 45
6	Sa.	Daguerre died, 1851.	4 38	7 22	8 26	2 33
7	S.	6th Sunday after Trinity.	4 38	7 22	9 10	3 21
8	M.	Burke died, 1797.	4 39	7 21	9 42	4 7
9	Tu.	Gen. Taylor died, 1850.	4 39	7 21	10 21	4 47
10	W.	Gibraltar taken, 1704.	4 40	7 20	10 48	5 36
11	Th.	Bat. of Rich Mountain, 1862.	4 40	7 20	11 16	6 24
12	Fr.	Cæsar born, 100 B. C.	4 41	7 19	11 44	7 12
13	Sa.	New York riot, 1863.	4 41	7 19	morn	7 52
14	S.	7th Sunday after Trinity.	4 42	7 18	12 15	8 49
15	M.	Stony Point taken, 1778.	4 43	7 17	12 45	9 37
16	Tu.	Last of the N. Y. riots, 1863.	4 43	7 17	1 16	10 27
17	W.	Huntsville taken, 1863.	4 44	7 16	1 48	11 11
18	Th.	13th French Revolution, 1798.	4 45	7 15	2 36	11 55
19	Fr.	Battle of Snicker's Gap, 1864.	4 46	7 14	3 18	12 50
20	Sa.	Rebel Congress met, 1861.	4 47	7 13	rises.	1 40
21	S.	8th Sunday after Trinity.	4 48	7 12	8 34	2 31
22	M.	Hayti independent, 1801.	4 48	7 12	9 12	3 22
23	Tu.	Bat. of Manassas Gap, 1863.	4 49	7 11	9 44	4 12
24	W.	Rebels take Winchester, '64.	4 50	7 10	10 10	5 4
25	Th.	(23) Bagdad sacked, 1401.	4 51	7 9	10 38	5 54
26	Fr.	Coleridge died, 1834.	4 52	7 8	11 1	6 42
27	Sa.	Atlantic cable laid, 1866.	4 52	7 8	11 28	7 30
28	S.	9th Sunday after Trinity.	4 53	7 7	11 54	8 22
29	M.	Dr. Thos. Dick died, 1857.	4 54	7 6	morn	9 12
30	Tu.	Mine at Petersb'g expl'd, '64.	4 55	7 5	12 22	10 8
31	W.	Stanford, Ky., taken, 1863.	4 56	7 4	12 56	10 58



MOON'S PHASES.

	d.	h.	m.	
NEW MOON,	4	4	44	Morning.
FIRST QUARTER,	12	12	50	Morning.
FULL MOON,	18	3	51	Afternoon.
LAST QUARTER,	25	3	32	Afternoon.

D. M.	Day of Week.	MISCELLANEOUS.	Sun Rises.	Sun Sets.	Morn Rises & Sets.	High Water.
1	Th.	Battle of the Nile, 1798.	4 57	7 3	1 39	11 46
2	Fr.	Plague in London, 1563.	4 58	7 2	2 29	12 34
3	Sa.	(2) Bat. at Folly Island, 1863.	4 59	7 1	3 25	1 18
4	S.	10th Sunday after Trinity.	5 0	7 0	sets.	2 6
5	M.	First book printed, 1462.	5 1	6 59	8 10	2 56
6	Tu.	Battle at Atlanta, Ga., 1864.	5 2	6 58	8 42	3 42
7	W.	Battle of Kirkville, Mo., '62.	5 3	6 57	9 14	4 31
8	Th.	Ft. Gaines surrendered, 1864.	5 4	6 56	9 44	5 23
9	Fr.	Ashburton Treaty, 1842.	5 6	6 54	10 16	6 11
10	Sa.	Battle at Wilson's Creek, '61.	5 7	6 53	10 46	6 56
11	S.	11th Sunday after Trinity.	5 8	6 52	11 22	7 44
12	M.	King Philip shot, 1676.	5 9	6 51	morn	8 32
13	Tu.	Battle of Grafton, Va., 1861.	5 10	6 50	12 18	9 18
14	W.	Bat. Strawberry Plain, 1864.	5 11	6 49	1 16	9 58
15	Th.	Fort Erie taken, 1814.	5 12	6 48	2 10	10 46
16	Fr.	Bat. of Deep Run, Va., 1864.	5 14	6 46	2 44	11 34
17	Sa.	Bombardment of Sumter, '63.	5 15	6 45	3 18	12 22
18	S.	12th Sunday after Trinity.	5 16	6 44	rises.	1 24
19	M.	Thebes destroyed, 325 B. C.	5 17	6 43	7 45	2 28
20	Tu.	The Atlantic sunk, 1852.	5 18	6 42	8 11	3 16
21	W.	Bat. of Bowling Green, 1862.	5 19	6 41	8 40	3 56
22	Th.	Battle at Gallatin, 1862.	5 20	6 40	9 6	4 43
23	Fr.	Charleston shelled, 1863.	5 21	6 39	9 34	5 31
24	Sa.	Bat. of Cape Girardeau, 1862.	5 23	6 37	10 0	6 20
25	S.	13th Sunday after Trinity.	5 24	6 36	10 33	7 9
26	M.	Bat. of Summersville, 1861.	5 25	6 35	11 6	7 59
27	Tu.	Bat. Kettle Run, Va., 1862.	5 27	6 33	11 39	8 47
28	W.	Battle at Centreville, 1862.	5 28	6 32	morn	9 35
29	Th.	Bat. of Gainesville, Va., 1862.	5 29	6 31	12 29	10 21
30	Fr.	Battle near Centreville, 1862.	5 30	6 30	1 38	10 59
31	Sa.	Bunyan died, 1688.	5 31	6 29	2 46	11 54



MOON'S PHASES.

	d.	h.	m.	
NEW MOON,	2	7	51	Evening.
FIRST QUARTER,	10	9	2	Morning.
FULL MOON,	17	12	2	Morning.
LAST QUARTER,	24	8	20	Morning.

D. M.	Day of Week.	MISCELLANEOUS.	Sun Rises.	Sun Sets.	Moon Rises & Sets.	High Water.
1	S.	14th Sunday after Trinity.	5 33	6 27	3 59	12 49
2	M.	Great Fire, London, 1666.	5 34	6 26	sets.	1 47
3	Tu.	New Style, 1754.	5 35	6 25	7 26	2 35
4	W.	John Morgan killed, 1864.	5 36	6 24	7 56	3 23
5	Th.	Bloody Bonner died, 1569.	5 37	6 23	8 24	4 11
6	Fr.	Fort Wagner taken, 1863.	5 39	6 21	8 56	4 49
7	Sa.	Boston settled, 1630.	5 40	6 20	9 30	5 34
8	S.	15th Sunday after Trinity.	5 41	6 19	10 12	6 20
9	M.	Dog Days end.	5 43	6 17	11 8	7 8
10	Tu.	Battle of Lake Erie, 1813.	5 44	6 16	morn	7 58
11	W.	Bat. of Elk Water, Va., 1861.	5 45	6 15	12 6	8 52
12	Th.	Battle at Augusta, Ky., 1862.	5 47	6 13	12 46	9 46
13	Fr.	Quebec taken, 1759.	5 48	6 12	1 32	10 38
14	Sa.	Bat. of South Mountain, 1862.	5 49	6 11	2 24	11 29
15	S.	16th Sunday after Trinity.	5 50	6 10	3 29	12 19
16	M.	(15) Habeas Corpus Suspend'd	5 52	6 8	4 39	12 59
17	Tu.	U. S. Const'n adopted, 1787.	5 53	6 7	rises.	1 46
18	W.	(16) Battle of Antietam, 1862.	5 54	6 6	7 20	2 32
19	Th.	Sheridan's fight, 1864.	5 56	6 4	7 46	3 21
20	Fr.	Strauss died, 1849.	5 57	6 3	8 10	4 10
21	Sa.	Bat. of Fisher's Hill, 1864.	5 58	6 2	8 39	5 5
22	S.	17th Sunday after Trinity.	6 0	6 0	9 9	5 50
23	M.	Major Andre arrested, 1780.	6 1	5 59	9 44	6 40
24	Tu.	Bat. of Romney, Va., 1861.	6 3	5 57	10 25	7 31
25	W.	Bat. of Chapmansville, 1861.	6 4	5 56	11 14	8 19
26	Th.	Philadelphia taken, 1777.	6 5	5 55	morn	9 9
27	Fr.	The Arctic lost, 1854.	6 6	5 54	12 9	9 59
28	Sa.	Bat. of Jerusalem plank road.	6 7	5 53	1 6	10 47
29	S.	18th Sunday after Trinity.	6 9	5 51	2 11	11 35
30	M.	Whitfield died, 1770.	6 10	5 50	3 20	12 24



OCTOBER

MOON'S PHASES.

NEW MOON,	d.	h.	m.	
FIRST QUARTER,	9	4	6	Morning.
FULL MOON,	16	10	36	Morning.
LAST QUARTER,	24	3	55	Morning.

D. M.	Day of Week.	MISCELLANEOUS.	Sun Rises.	Sun Sets.	Moon Rises & Sets.	High Water.
1	Tu.	First Steamer in U. S. 1807.	6 11	5 49	4 34	1 11
2	W.	First Railroad in U. S. 1833.	6 13	5 47	sets.	2 2
3	Th.	Greek fire thr'n in Charlest'n.	6 14	5 46	6 46	2 41
4	Fr.	Selkirk exiled, 1704.	6 15	5 45	7 16	3 30
5	Sa.	Cornwallis died, 1805.	6 17	5 43	7 50	4 22
6	S.	19th Sunday after Trinity.	6 18	5 42	8 31	5 11
7	M.	The Florida captured, 1864.	6 19	5 41	9 18	6 5
8	Tu.	John Hancock died, 1793.	6 20	5 40	10 16	6 55
9	W.	Bat. of Santa Rosa Island, '61.	6 22	5 38	11 14	7 43
10	Th.	Bat. Blue Springs, Tenn., 1863.	6 23	5 37	morn	8 32
11	Fr.	Battle near Ft. Nelson, 1864.	6 24	5 36	12 16	9 21
12	Sa.	Battle of Strasburg, 1864.	6 26	5 34	1 24	10 10
13	S.	20th Sunday after Trinity.	6 27	5 33	2 32	10 55
14	M.	Battle of Linn Creek, 1861.	6 28	5 32	3 41	11 40
15	Tu.	Bank Panic, 1857.	6 29	5 31	4 48	12 35
16	W.	Bat. of Fredericktown, 1861.	6 31	5 29	rises.	1 24
17	Th.	Burgoyne surrendered, 1777.	6 32	5 28	6 20	2 14
18	Fr.	Palmerston died, 1865.	6 33	5 27	6 48	2 51
19	Sa.	Surrender of Cornwallis, 1781.	6 35	5 25	7 16	3 42
20	S.	21st Sunday after Trinity.	6 36	5 24	7 56	4 30
21	M.	Battle of Trafalgar, 1805.	6 37	5 23	8 28	5 18
22	Tu.	Bat. of Pocotaligo, S. C., 1862.	6 39	5 21	9 20	5 58
23	W.	(22) Battle of Red Bank, 1777.	6 40	5 20	10 18	6 46
24	Th.	Daniel Webster died, 1852.	6 41	5 19	11 16	7 34
25	Fr.	Demosthenes died, 322 B. C.	6 42	5 18	morn	8 22
26	Sa.	Great Storm in England, 1703.	6 44	5 16	12 2	9 10
27	S.	22d Sunday after Trinity.	6 45	5 15	1 4	10 0
28	M.	(27) Brutus died, 42 B. C.	6 46	5 14	2 10	10 42
29	Tu.	Bat. of Fayetteville, Ark., '62.	6 47	5 13	3 19	11 31
30	W.	Ex. Gov. Andrews died, 1867.	6 48	5 12	4 28	12 18
31	Th.	(29) Maryland, Free State, '64.	6 50	5 10	5 41	1 9



NOVEMBER

MOON'S PHASES.

NEW MOON,	d.	h.	m.	
FIRST QUARTER,	7	10	55	Evening.
FULL MOON,	15	12	10	Morning.
LAST QUARTER,	23	12	46	Morning.
NEW MOON,	30	1	38	Afternoon.

D. M.	Day of Week.	MISCELLANEOUS.	Sun Rises.	Sun Sets.	Moon Rises & Sets.	High Water.
1	Fr.	Charles Linnæus died, 1783.	6 51	5 9	sets.	2 1
2	Sa.	Battle Roan Springs, 1863.	6 52	5 8	6 22	2 4
3	S.	23d Sunday after Trinity.	6 53	5 7	7 5	3 39
4	M.	McClellan removed, 1862.	6 54	5 6	7 59	4 19
5	Tu.	Bat. of Barbours, Va., 1862.	6 55	5 5	9 2	5 7
6	W.	Lincoln elected, 1860.	6 56	5 4	10 14	5 57
7	Th.	Battle of Belmont, Mo., 1861.	6 57	5 3	11 24	6 45
8	Fr.	Milton died, 1674.	6 58	5 2	morn	7 37
9	Sa.	Arnold at Quebec, 1775.	6 59	5 1	12 29	8 29
10	S.	24th Sunday after Trinity.	7 1	4 59	1 34	9 20
11	M.	Luther born, 1483.	7 2	4 58	2 40	10 11
12	Tu.	Montreal captured, 1775.	7 3	4 57	3 42	10 55
13	W.	Battle of Bull's Gap, 1864.	7 4	4 56	4 44	11 50
14	Th.	Charles Carroll died, 1832.	7 5	4 55	5 48	12 46
15	Fr.	Surtwell, botanist, died, 1867.	7 6	4 54	rises.	1 39
16	Sa.	Sherman en route Sav., 1864.	7 7	4 53	5 54	2 28
17	S.	25th Sunday after Trinity.	7 8	4 52	6 29	3 35
18	M.	Napoleon disinterred, 1840.	7 9	4 51	7 9	4 23
19	Tu.	Jay's Treaty, 1794.	7 10	4 50	7 59	5 12
20	W.	Milledgeville, Ga., taken.	7 11	4 49	8 53	5 55
21	Th.	Mariner's Compass, 1302.	7 11	4 49	9 40	6 43
22	Fr.	Pensacola bombarded, 1861.	7 12	4 48	10 42	7 31
23	Sa.	Dr. Parkman killed, 1849.	7 13	4 47	11 52	8 19
24	S.	26th Sunday after Trinity.	7 14	4 46	morn	9 8
25	M.	Evacuation New York, 1783.	7 15	4 45	12 54	9 58
26	Tu.	Battle of Vienna, Va., 1861.	7 15	4 45	2 1	10 47
27	W.	Meade's fight over Rapidan.	7 16	4 44	3 9	11 35
28	Th.	Baron Steuben died, 1794.	7 17	4 43	4 24	12 22
29	Fr.	Bat. of Perryville, Va., 1862.	7 17	4 43	5 39	1 10
30	Sa.	Euripides died, 406 B. C.	7 18	4 42	sets.	2 12



MOON'S PHASES.

	d.	h.	m.	
FIRST QUARTER,	7	6	38	Morning.
FULL MOON,	14	4	46	Evening.
LAST QUARTER,	22	9	14	Evening.
NEW MOON,	30	1	38	Morning.

Monday, January 1, 1872.

Tuesday, 2

D. M.	Day of Week.	MISCELLANEOUS.	Sun. Rises.	Sun. Sets.	Moon Rises & Sets.	High Water.
1	S.	1st Sunday in Advent.	7 19	4 41	5 35	3 11
2	M.	John Brown hung, 1859.	7 19	4 41	6 39	4 10
3	Tu.	Seige of Knoxville, 1863.	7 20	4 40	7 49	5 8
4	W.	Winchester surrendered.	7 20	4 40	9 1	5 54
5	Th.	Bat. Coffeeville, Miss., 1862.	7 21	4 39	10 12	6 42
6	Fr.	Rhode Island taken, 1776.	7 21	4 39	11 24	6 30
7	Sa.	Ney shot, 1815.	7 22	4 38	morn	7 18
8	S.	2d Sunday in Advent.	7 22	4 38	12 32	7 58
9	M.	Sumter bombarded, 1863.	7 23	4 37	1 40	8 44
10	Tu.	Battle of Pt. Royal, Va., '62.	7 23	4 37	2 51	9 31
11	W.	Fredericksburg bombarded.	7 23	4 37	3 59	10 35
12	Th.	Charles XII. killed, 1718.	7 24	4 36	5 10	11 39
13	Fr.	Battle of Fredericksburg, '62.	7 24	4 36	6 24	12 42
14	Sa.	Ember Day.	7 24	4 36	rises.	1 44
15	S.	3d Sunday in Advent.	7 25	4 35	5 40	2 41
16	M.	Boston Tea Party, 1773.	7 25	4 35	6 24	3 34
17	Tu.	Bat. of Mumfordsville, 1861.	7 25	4 35	7 26	4 28
18	W.	Bat. of Lexington, Ky., 1862.	7 25	4 35	8 29	5 10
19	Th.	Rome burned, 69.	7 25	4 35	9 30	5 50
20	Fr.	South Carolina seceded, 1860.	7 25	4 35	10 21	6 42
21	Sa.	Savannah taken, 1864.	7 26	4 34	11 19	7 32
22	S.	4th Sunday in Advent.	7 25	4 35	11 54	8 20
23	M.	Xerxes enthroned, 486 B. C.	7 25	4 35	morn	9 11
24	Tu.	Edwin M. Stanton died, 1869.	7 25	4 35	12 40	9 56
25	W.	CHRISTMAS.	7 25	4 35	1 48	11 40
26	Th.	38 Indians hung, 1862.	7 25	4 35	2 59	11 30
27	Fr.	St. John died, 100 A. D.	7 25	4 35	4 1	12 20
28	Sa.	Ghent Treaty ratified, 1814.	7 25	4 35	5 18	12 59
29	S.	Sunday after Christmas.	7 24	4 36	6 31	1 40
30	M.	The Jesuits founded, 1535.	7 24	4 36	sets.	2 18
31	Tu.	Battle of Stone River, 1862.	7 24	4 36	6 18	2 58

Wednesday, 3

Thursday, January 4, 1872.

Friday, 5

Saturday, 6

Sunday, January 7, 1872.

Monday, 8

Tuesday, 9

Sunday, January 28, 1872.

Wrote to B. Westermann & Co
that unless some books, I ordered
through their house should be sent to
me ^{without further delay} ~~within 10 or 15 days from this~~
~~date~~, that I would not want them.
They were ordered some three months
back, on condition that they should
be procured within a reasonable time.

Monday, 29

Tuesday, 30

Wednesday, January 31, 1872.

Thursday, February 1

Friday, 2

Saturday, February 3, 1872.

Tuesday, February 6, 1872.

Sunday, 4

Wednesday, 7

Monday, 5

Thursday, 8

Sent 24 plates Ohio
fossils, by B. J. Peck, to Dr. New.
Army this morning

Friday, February 9, 1872.

Saturday, 10

Sunday, 11

Monday, February 12, 1872.

Tuesday, 13

Wednesday, 14

Saturday, March 16, 1872.

Tuesday, March 19, 1872

Sunday, 17

Wednesday, 20

Gave Mr Holmes an
order on Hayden for fifty
four dollars worth of drawings
made of fossils for his U.S. Survey

Monday, 18

Thursday, 21

Friday, March 22, 1872.

Saturday, 23

Sunday, 24

Monday, March 25, 1872.

Tuesday, 26

Wednesday, 27

Saturday, June 8, 1872.

Sunday, 9

Monday, 10

Tuesday, June 11, 1872.

Recd of Hayden through
Jay Cook & Co. three hundred
and fifty dollars, to be used in
paying my own + Mr. Barnister's
expenses (as far as it will go), while
on a journey (geological) to the
Rocky Mts. Salt Lake region
&c &c. (\$350.00)

Wednesday, 12

Thursday, 13

Friday, June 14, 1872.

Left with Prof. Sill \$2500
agency, to be invested in Bonds
or otherwise, for my benefit -
also \$2600 to be sent to me
in drafts to the far west as I may
need it. Of this last amount \$27600
were in gold

Saturday, 15

Sunday, 16

Monday, June 17, 1872.

Tuesday, 18

Wednesday, 19

3*

Thursday, June 20, 1872.

Friday, 21

Saturday, 22

~~Handwritten signature~~

Sunday, June 23, 1872.

Monday, 24

Mr. Bell collected material
on my hands in bank
to the 1st of June. Paid to
him \$275.00 in gold.
The balance of the
month of June in bank
was \$16.25 to be paid to
him on the 1st of July.
Total \$291.25

Tuesday, 25 (See next p.)

I have paid \$25 to Mr. Bell
for the 1st of July. The balance
of the month of July in bank
was \$16.25 to be paid to
him on the 1st of August.
Total \$291.25

Wednesday, June 26, 1872.

Mr. Gill sent me a draft for \$200.00 of the gold mentioned on last p. I drew that at San Francisco. He also sent me a dft for \$150.00 currency, which I did not draw, but returned the dft to him on my return in Oct. and

Thursday, 27

he is indebted to me for that amt. in that transaction, as well as for the bal. of the gold I left with him.

Jan 2, 1873 Mr. Gill paid me \$40.00 dollars which made up the whole amt of the \$150.00 mentioned above as due me.

Friday, 28

Saturday, June 29, 1872.

Sunday, 30

Monday, July 1

Left Omaha for the west this morning at 11 o'clock A.M.

Tuesday, July 2, 1872.

Spent the day on the
Rail road between Omaha
and Cheyenne

At Cheyenne 1 o'clock P.M.

Came down to Denver, Colorado
where we arrived at 6 o'clock P.M.

Wednesday, 3

Came to Hunt on the Boulder
valley Rail road to Erie where
open coal mine, associated with
white sandstone - dip to S or S.E.
8° Saw frequent Tan Oak in sandstone
coal. 8 to 9 feet thick.

Could not get conveyance to Boulder
Coal mines. And returning to Denver. Then
Came on to Golden City - 6 1/2 o'clock A.M.

Thursday, 4

At Golden City

Friday, July 5, 1872.

Saturday, 6

Sunday, 7

Monday, July 8, 1872.

Tuesday, 9

Wednesday, 10

Thursday, July 11, 1872.

Friday, 12

Saturday, 13

Sunday, August 25, 1872.

Monday, 26

Left Ogden for San Fran-
cisco.

Tuesday, 27

Wednesday, August 28, 1872.

Thursday, 29

4*

Friday, 30

Saturday, August 31, 1872.

Sunday, September 1

Monday, 2

Tuesday, September 3, 1872.

Wednesday, 4

Thursday, 5

Friday, September 6, 1872.

Left Reno at 2 o'clock A.M.
for Steamboat Spr. where arrived
at 3 o'clock A.M.
Frost this morning

Saturday, 7

Spent the day at
Steamboat Springs

Sunday, 8

Started from Steamboat Spring
at 3 o'clock this morning for Va.
city, where we arrived at 5.30.

Spent the day here

Monday, September 9, 1872.

Spent the day at Va city
Ascended Mt. Davidson

Tuesday, 10

Spent the day at Va city

Wednesday, 11

Went to see Sutter Tunnel
with Mr. Safford

Thursday, September 12, 1872

Start Went down into Crow
Point mine this evening at about 10
on water after 1.00 PM and came
out a few minutes before 3.00 PM
Start for Steam Boat Springs at
4.00 PM arrived there at 7.00 PM

+ Had supper and lodging

Friday, 13

+ Breakfast and dinner St. Spr.
+ Supper

Saturday, 14

Breakfast St. Spr. Dinner

Sunday, September 15, 1872.

Steam Springs

Monday, 16

Steamboat Spr.

Came up to Reno from
St. Spr.

Tuesday, 17

Remained at Reno

Wednesday, September 18, 1872.

Came to Humboldt station
saw Sulphur mine, this morn.
Spent the day here

Thursday, 19

Came on to Elko
stayed all night

Friday, 20

At Elko
11 o'clock P.M.

Saturday, September 21, 1872.

Came to and at
Elko where stayed
all night

Came on in evening to Kelso
and stayed all night
Sunday, 22

~~Came to and at~~
~~Elko where stayed~~
~~all night~~
Came on to Ogden

Monday, 23

At Ogden
Snow on Mountains
near Ogden this afternoon

Tuesday, September 24, 1872.

Wednesday, 25

Thursday, 26

Friday, September 27, 1872.

Saturday, 28

Sherman - Summit of
Rocky Mts. 9 elk seen
gathered up a Snowball
for my coat, and skinned

Sunday, 29

Monday, September 30, 1872.

Tuesday, October 1

Wednesday, 2

Thursday, October 3, 1872

Friday, 4

Arrived Washington
from far west.

Saturday, 5

Sunday, October 6, 1872

Virginia city 6200 feet above tide. Situated on eastern slope Mount Davidson, near base, but perhaps 1000 to 1500 feet above Carson valley on east.

Mt. Davidson 1715 feet above the principal street of Va. city and 5000 ft above tide from summit reached near Lake Washoe Monday, 7 seen at a

distance of only miles to west or S. of N. and 2000 feet lower. At distance of about 60 m. due west Mount Allan. See journal at range Sierra Nevada feet high above sea, seen whitened in patches by snow. To S. at dist. of 80 m. seen various lower mts. and across Carson valley, Silver mts. seen

Tuesday, 8

whitened with snow 1 foot high

Wednesday, October 9, 1872.

Sun sets at Virginia city at 4¹² past 4 o'clock - Sept 10th. 1872

Thursday, 10

Friday, 11

Saturday, October 12, 1872.

Sunday, 13

Monday, 14

Tuesday, October 15, 1872.

Wednesday, 16

Thursday, 17

Friday, October 18, 1872.

Monday, October 21, 1872.

At 10 AM. Sunday from
Lancaster

Saturday, 19

Tuesday, 22

At 10 AM. Sunday from
Lancaster

Sunday, 20

Wednesday, 23

At 10 AM. Sunday from
Lancaster
11 AM. Sunday from
Lancaster

Thursday, October 24, 1872.

Sunday, October 27, 1872.

Friday, 25

Monday, 28

Saturday, 26

Left Ogden city at 5 P.M.
for San Francisco

Tuesday, 29

Recd. of Mr. Gill \$50.00
for my deposit
of me with him
see Nov. 15th see Dec
26

Jan 2^d 1873 Mr. Gill
paid me \$50.00

Wednesday, October 30, 1872.

Thursday, 31

Friday, November 1

Saturday, November 2, 1872.

Sunday, 3

Monday, 4

Went to Prof. Souder's
3rd to settle on days &
Apr. Assoc. for Dubuque
meeting

Tuesday, November 5, 1872.

Wednesday, 6

Thursday, 7

Friday, November 8, 1872.

Saturday, 9

Sunday, 10

5*

Monday, November 11, 1872.

Thursday, November 14, 1872.

Tuesday, 12

Friday, 15

Recd from Prof Gell
on acct deposits of \$50.00
with him
Oct. 29th

Wednesday, 13

Saturday, 16

Sunday, November 17, 1872.

Wednesday, November 20, 1872.

Monday, 18

Thursday, 21

Tuesday, 19

Friday, 22

Paid Mr. Lyett \$14.00 the
amount of my bill with him
for binding books up to date -
The books were left with him last
summer when I went west, but
not completely until after my return
to W. in Oct. 1872.

Saturday, November 23, 1872.

Tuesday, November 26, 1872.

Sunday, 24

Wednesday, 27

Monday, 25

Thursday, 28

Sent back to Mr. Sinclair
proofs of plates 2, 3, 10,
12, 15, 20, 21, 23, 27, 25
and 35, of wp. Mr. Palaeont.
with letter. Am to have
proofs of lettering, and some
corrections. Pl. 20 had, not
accepted yet.

Friday, November 29, 1872.

Saturday, 30

Sunday, December 1

Monday, December 2, 1872.

Tuesday, 3

Wednesday, 4

Left off work on Hayden
Station this morning
as the work today
Whole day spent that I
am nearly satisfied that the track
is well laid at Grandrapids
yesterday I took R. H. H. H. H.
and had to go into Cret.

Thursday, December 5, 1872.

Friday, 6

Saturday, 7

Sunday, December 8, 1872.

Monday, 9

Tuesday, 10

Sent Mr. Varnett's the suit
the the Acad. & C. from
the for Proceedings for 1872

Wednesday, December 11, 1872.

Saturday, December 14, 1872.

Thursday, 12

Sunday, 15

Sent to Sinclair Orig. draw
up. Mo. - p. 13, 14, 16, 17
18, 19, 22, 24, 26 & 28.

Friday, 13

Monday, 16

Tuesday, December 17, 1872.

Friday, December 20, 1872.

4

No. 1. The first box by mail

Wednesday, 18

Saturday, 21

Sent to Mr. Sinclair 8 plates
of wpp. Mo. Pal. numbered as
follows 1. Cyrena, Phacella, Mio
No. of Dak. gr. - No. 2. Kansas Fossils
coll. same gr. - No 3. Inocer. Benton
gr. - No. 4. do. with Veridia - No. 5
large Inocer. & small bivalves. B. gr.
- No. 6. Scaphite - B. gr. - No. 7. An-
monites - Thursday, 19 per car. B.
B. gr. - No. 8. Nautilites & 10th
minute Benton gr.

Sunday, 22

Monday, December 23, 1872.

Tuesday, 24

Wednesday, 25

Thursday, December 26, 1872.

Recd of Mr. Gill \$10
See ~~for~~ June 23 & Oct. 27
& Nov. 13th

Friday, 27

Recd from Mr. Rhoads \$25.00
on interest on his note held by me

Saturday, 28

Sunday, December 29, 1872.

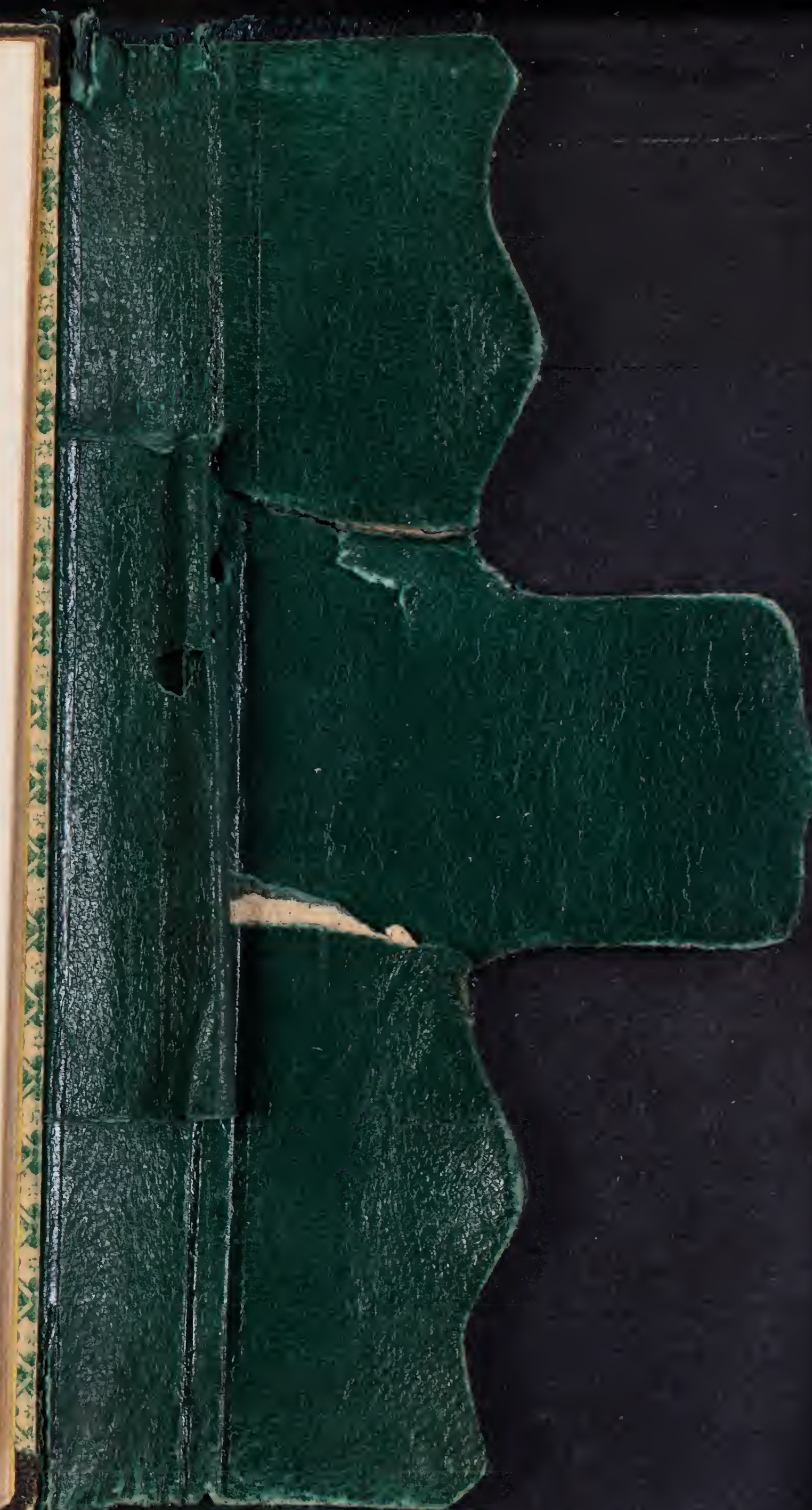
Monday, 30

Tuesday, 31

Memoranda

Memoranda.

Memoranda.



Memoranda.

Memoranda.

Cash Account. January.

		Received	Paid.
1872	Reed of Hayden		
June -	\$350.00		
	to pay on exp. of		
	western tour -		
June 24	Paid ticket to Chi-		
	cago -		19.00
	Exp. on trunk		50
25	breakfast Springfield	2	25
26	breakfast	2	25
	fare from Car	2	00
	Dinner		30
	Telegram to Portland	1	52
	car fare		50
	2 bed day Car. Lod.		2.00
	lunch in Chicago		2.00
27	breakfast		10
28	fare from		20
	Exp. on trunk		30
	At Chicago, Ill.		30
July 1	fare from Portland	1	00
" 21	fare from B. to Salt Lake	4	50
"	At Evanston		50 00
	ride back from L. 3.50		
Aug 15	At Salt Lake from R.	4	00
	Ref. & forme here. Oct 3.50		

Cash Account January.

		Received	Paid.
Expulsion			
Sept. 17 th	Boat & specimens from Reno Nevada		6.75
28	Slapping Car to Omaha		8.00
"	Dinner		1.00
"	Supper		1.00
28	Breakfast (Sarama)		1.00
"	Dinner / Chicago		1.00
"	Supper		1.00
29	Breakfast & r. to St. Louis		1.00
	Onion & Omaha		50
Oct 1st	Hotel Omaha		3.75
"	Ticket to Washington from Omaha		38.70
	Omibus charges from Hotel at Omaha		1.00
	Sleeping car. Wm B. to St. L.		3.00
" 2	Supper		75
" 2	Breakfast		75
" 2	Dinner at St. Louis		1.50
" 2	Sleeping car St. L. to Chicago		2.00
" 3	Breakfast at "		75
" 3	Dinner at Chillicothe		75
" 3	Supper Parkersburg		50

Cash Account February.

	Received	Paid.
4	Sleeping Car Ticket Park St. Marsh	2 00
	Breakfast Relay H.	75
	Lunch for Sinclair	1 00

Cash Account. February.

	Received	Paid.
1972	Hayden	
Oct. 23	Exp on proof plates fr. Sinclair	35
28	Extra for extra for extra	75
Nov 18	Exp on drawings for Sinclair	50
	Box of specimens from Prof. Lequerre	4.40
Jan 19	Exp on specimens for Prof. Lequerre	75
Mar 31	Balance carried over	75
Apr 11	Exp for fossils sent to Mr. Billings	1 65
Apr 16	Exp for fossils sent to Cope	60

settled up to May 4th

Cash Account. March.

Cash Account. March.

Cash Account. April.

Cash Account. April.

	Received	Paid.
Aug 15 th Exp. to Salt L		
from Ogden		
Amt paid by Mr. Ba		
and repaid by me		
to him	2	75
16 th Exp. on truck	1	37
Hotel at Salt L.	12	00
Onions to H. Hotel	1	00
20 th Passage from S. L. to Ogden	2	75
23 rd Telegr. to Prof.		
for money	5	00
25 th Hotel bill while		
waiting at Ogden	15	00
" Breakfast at S. L.	1	00
27 th Breakfast + dinner	1	50
Hotel in San Fran	12	50
incidental exp.	12	50

Cash Account. May

Received

Paid.

Cash Account May.

Received

Paid.

Cash Account. June.

Cash Account. June.

		Received	Paid.
Dr E. B. Cannon			
Ogden City			
Utah.			

Cash Account July.

	Received	Paid.
Brown Point mine - Lump 5700 feet above sea, at Cott's Hill, 1 mile S. Va. city		
Went in mine 15 after 10 A.M. -		
1200 ft station 4900 above sea. Lump 88		

Cash Account. July.

[illegible]

Cash Account. August.

Received. Paid.

Nearest Spring of the
N.E. & S.W. Japan. On
Elevation of Lake. dip. 35°
40 ft above bottom of valley
the course of which valley
is nearly N.E. Springs
on W. side valley about
near base of slope. On
E. side valley, which is only
4 1/2 mi. wide, rounded hills
and mts. 600 to 1000 ft above
valley, & on W. side some in
places perhaps more than
1000 ft. while at dist. of
15 miles to S.W. Mt. perhaps
2000 to 3000 ft above valley
and many some patches
snow. Close to the mouth
S. of spring, grey granite
seen at foot of slope just
above the white calc. dip
of spring to W.

* Same deposit seen along slope 100 to 150
ft in places above valley

Cash Account. August.

Received. Paid.

rock in valley runs near
N. spring boiling hot, and
same in constant ebullition
and all send forth more or
less steam at times. All
spring from Japan in their
own deposit and usually
from little concretion,
many of these are dry now
and do not even emit
steam. All have more
or less sulphurous odor
and some bring up frag-
ments of pure sulphur.

About 1/2 mi. a little west
of O. from above, there is a
large area, perhaps some
hundreds of acres, occupied
by the white calc. deposit of
the springs 90 to 120 feet in
thickness. At one place there
are 3 to 4 or 5 parallel, nearly
N + S. ridges from 2 to
4 or 8 inches wide and

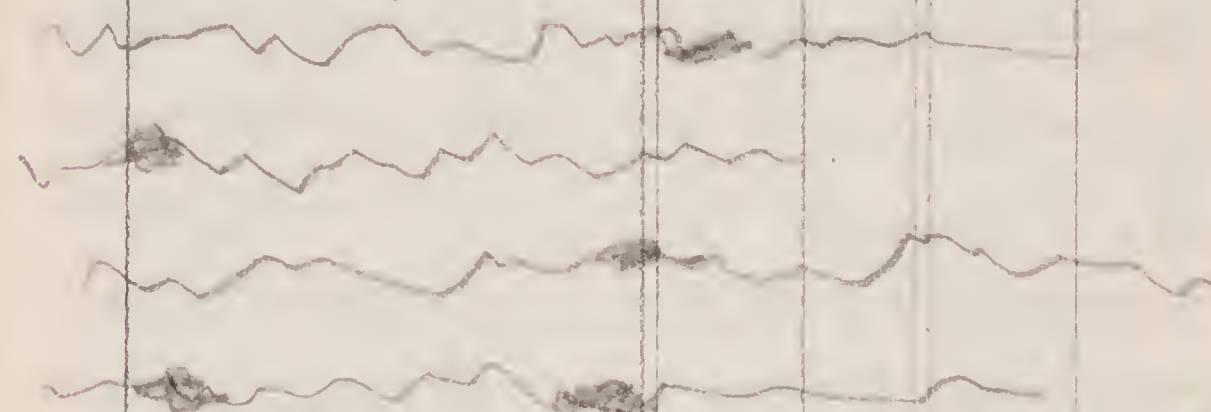
Received	Paid.

Frank known depth in
 that whole deposit, steam
 all along these figures the
 is found much of the time
 and at various places
 water flows from
 these pipes. Great quantities
 of this water flows out at
 times. At one place I saw
 it is pulsating at times
 in bursts of a second or so
 of gushes up violently, and
 splashes around so that
 it is unsafe to stand very close
 to the spring. Steam was also
 seen and seemed to be the
 source of the pulsation.

Most of these springs seem
 to be more or less uniform
 either entirely stopping at times
 or gushing up in quantity
 a yellowish, strongly acid
 deposit left by some of
 others deep reddish water
 & some, nearly black - sometimes
 reddish & again white slung dep

Received	Paid.

The figures mentioned
 are zigzag thus



but have general parallelism
 where the most steam & water
 issue there are wider places
 sometimes 2 feet or more
 in diameter, and occasion-
 ally nearly circular
 generally in a little elevation
 of the calc. deposit

I am told that a mile
 west of these springs and at
 considerably higher elevations
 along the slopes and crevices
 of the hills the same whitish
 calc. deposits and the remains
 of old springs are seen, that
 are now, and have been as long
 back as the country has been
 known, dry. I think I saw
 in the distance high up

Received	Paid.
----------	-------

the side of the mountain
the same. 500 to 700 feet
above valley, the same kind
of deposit, both on the east
and west sides of the valley,
though I did not go to
these places to examine.

Directly at the most south
end of this spring, at a little
higher elevation there are some
low outcrops of gray granite;
while one or two 100 yds
north of this on the west
side of the valley & immedi-
ately on the west of the
whitish deposits of the spring
the hill about 100 to 150
above the same, is mainly
composed of a dark basaltic
rock, at places quite porous,
but in others more compact.

The springs do not taste
very strongly of saline matter
nor of sulphur; but the

Received	Paid.
----------	-------

amount of rock they have
deposited shows that they
must hold a considerable
quantity of lime and per-
haps Magnesia with other
earthy salts in solution.
The water is very hot, in
all the springs and will
cook an egg hard. I am
told in

5 miles. When
they want to pick a chicken
they merely have to dip it into
one of these boiling springs.
The same length of time that
would be required to dip it
into a pot of boiling water
for the same purpose.

There seem to be hundreds
of these springs here, that
must, in the aggregate
pour forth an immense
quantity of boiling water.

Cash Account. November.

[illegible]

Cash Account November.

Cash Account. December.

Received	Paid.
----------	-------

Paid.

Cash Account. December.

Received

Paid.

Gold Mines - Gold Run
Dutch flat near Gold
Run - Hotel Accom
at Coal fire

White Sulphur

Skaggs Spring

Leads 5. 12 PM on
March 5/31 at 9 PM

White Sulphur can
go at 7.30 a.m. & 4 p.m.

Summary of Cash Account.

MEMORANDA.

MEMORANDA.

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Dolls. Cts.

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A. 25
 H. 130
 H. 5 ft
 H. 3, - 2
 W. 2 - 2
 Th. 1 - 9
 C. 1 - 2
 L. 9
 (A) at Th. 3. at 50.

MEMORANDA.

Dolls. Cts.

Gabb's Ocher *obovatus*
is distinctly distinct from
the Wyoming sp. being a
shorter thicker shell, with
beak much shorter and more
obtusely, so as to give a more
spherical form to the shell

Saw in Cal. State Coll
a little *Oyster* very like a
little *Mytilus* Rock
Pt. Rock sp. It was not
collected by name, but from
San Diego. Bro. Mr. Morse
coll. It is same size
& form. I sometimes doubt
if it is *Mytilus* but I think
them a little smaller
A radiate *Modiola*
occurs with it

but I don't know
if it is a *Modiola* or
if it is a *Mytilus*

State Bank of
Nebraska 100 gold
gorge 12 ⁰⁰ currency
1 one hundred dollar
bill taken

L. May 1890

Ellis

Mountain View

Apr

Trachyte in lower

1/2 m. west of Mt.

Notes -

1 m. S. of

1/2 m. S. of

5 handkerchiefs

1 for socks

10 sh.

3 handkerchiefs

49.00

2.00

453

1 Syenite

2 Greenstone porphyry

3 Trachyte

4 Trachytic tuff

6.00

3.00

3.00

49.00

8.00

1.00

Check for trunk from
Ogden to Omaha

" Union Pacific Rail
road - 48

